

4 MONITORING RESULTS AND CONCLUSIONS

4.1 Monitoring Results

The non-statistical analysis of VOCs for the First Quarter of 2000 sampling event indicated fewer VOC detections in groundwater samples than the previous quarter. Most of the VOC detections this quarter came from one sample taken from lysimeter BE1-18. Out of 33 VOC detections in groundwater samples this quarter, 26 of them were detected in the BE1-18 sample. A trace of methylene chloride was detected in the background monitoring well sample, and a trace of xylenes were detected in a compliance monitoring well sample. The remaining detections were in lysimeter samples only. Methylene chloride was also detected in all the field and travel blanks at the same or greater concentrations, suggesting it came from a source other than groundwater.

Because there was insufficient water to pump or bail the well for a sample, well BE1-04 could not be sampled during the first quarter.

On February 9, 1999, KCWMD submitted the Water Quality Protection Standard (WQPS) Report for Bena to the RWQCB. Some misprints in the original WQPS concentration limits and the summary of the intra-well prediction limits were corrected last fall. KCWMD notified the RWQCB by letter dated September 15, 1999, of the misprints. Corrections to the Report were sent to the RWQCB with the September 15 letter. For more details on those corrections, please refer to that correspondence. KCWMD will eventually use the WQPS and the well data to perform statistical analyses. Prior to RWQCB approval of the WQPS for Bena, KCWMD will continue to evaluate the groundwater monitoring data with a non-statistical analysis.

4.2 Conclusions

The First Quarter 2000 has not shown an increase in VOC detections in groundwater samples, but rather a decrease in the number of constituents, and some decrease in concentrations of some of the constituents detected during the last two quarters. On July 15, 1999, KCWMD notified the RWQCB of KCWMD's findings regarding the second discrete retest results of compliance well BE1-02 with a "Notification of Intent" letter. Since the "Notification of Intent" letter was sent to the RWQCB, KCWMD has been closely watching the sample analysis results for well BE1-02. Although the laboratory results for the discrete retest performed June 8, 1999 led KCWMD to conclude there was "measurably significant" evidence of a release, there has not been strong, consistent evidence of a release since that time. During the Fourth Quarter of 1999, there was just one trace VOC detection (benzene) in well BE1-02, and no VOC detections this quarter.